

## Press Release

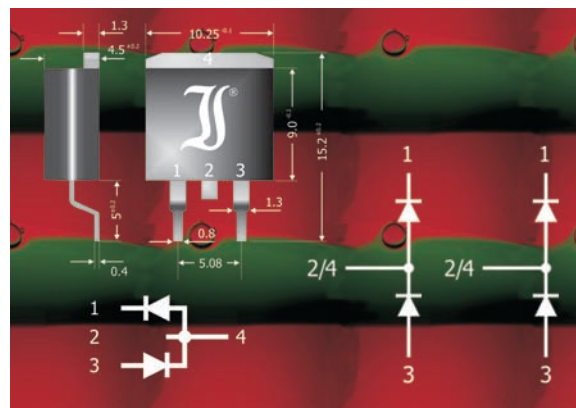
026e 20 April 2009

Text file (.txt) and high resolution picture see <http://www.diotec.com/service/presse/>**Stand 12-539**

### Half Bridge Device Saves Space and Costs in Power Supplies and Drives

*D<sup>2</sup>PAK for automated assembly of single and three phase bridges*

Diotec introduces a new device called the S16 series. It is a half bridge or so-called voltage doubler – meaning two diodes in series come in one TO-263/D<sup>2</sup>PAK outline. Two or three of such devices can easily form a single or three phase input rectifier circuit. It improves automation and eliminates the bridge/heatsink manual assembly process in power supplies and drives up to several 100 Watts. Transistors for such applications are widely available in SMD packages; the new device allows now to build the complete power stage in SMD, using automated soldering processes. It saves space, costs and optimizes thermal resistance.



The S16 series contains of two nominal 8 Amp diodes, which can be used to build up a maximum 16 Amp single phase or 24 Amp three phase bridge. The reverse voltage is available up to 1000 Volts, and forward surge rating is maximum 135 Amp at 50 Hz half sine wave pulse.

**For more information, visit our stand 12-539 at PCIM 2009 in Nuremberg!**

**Diotec Semiconductor AG** of Germany is a manufacturer of discrete semiconductor diodes and rectifiers with more than 30 years of experience in this field. The company specializes in high volume manufacturing as well as customized solutions in 4 factories around the world and offers short cycle times / great flexibility and detailed technical support.

**Further information** is available from Udo Steinebrunner, Tel.: +49-7634-5266-83, Fax: +49-7634-5266-61, E-mail: [u.steinebrunner@diotec.com](mailto:u.steinebrunner@diotec.com) or on our website <http://www.diotec.com/>.

Text file (.txt) and high resolution picture see <http://www.diotec.com/service/presse/>